

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A communications system for secure wireless communications, said communications system comprising:

a first device having transceiving means therein for communicating in a first and a second communication mode; ~~and~~

a second device, in wireless communication with said first device, said first and second devices wirelessly communicating in said first communication mode using an infrared signal and in said second communication mode using a radiofrequency signal;

wherein said first and second devices transceive a plurality of messages therebetween in said second communication mode;

wherein, prior to transceiving a security message therebetween, said first and second devices switch transceiving to said first communication mode, and transmit said security message in said first communication mode; ~~and~~

wherein, upon said second device switching said transceiving to said first communication mode, said second device transmits an infrared request message to said first device.

2. (Canceled)

3. (Previously Presented) The communications system according to claim 1, wherein said first and second devices, upon completion of the transceiving of said security message, switch transceiving therebetween to said second communication mode.

4. (Previously Presented) The communications system according to claim 1, wherein said security message comprises a plurality of encryption keys for the subsequent encryption of a plurality of said messages transceived in said second communication mode.

5. (Canceled)

6. (Currently Amended) The communication system according to claim 1, wherein said first device, upon receipt of said infrared request message, transmits said security message to said second device.

7. (Original) The communication system according to claim 6, wherein said security message comprises a plurality of encryption keys for the subsequent encryption of a plurality of said messages transceived in said second communication mode.

8. (Original) The communication system according to claim 1, wherein said transceiving means within said first device comprises:

infrared transceiving means for transceiving infrared signals with said second device in said first communications mode;

radiofrequency transceiving means for transceiving radiofrequency signals with said second device in said second communications mode; and

switching means for switching between said infrared and radiofrequency transceiving means.

9. (Original) The communication system according to claim 8, wherein said infrared transceiving means comprises:

a photodetector for receiving said infrared signals from said second device; and
an infrared emitter for transmitting said infrared signals to said second device.

10. (Original) The communication system according to claim 1, wherein said second device comprises a transceiving means therein, said transceiving means within said second device comprising:

infrared transceiving means for transceiving said infrared signals with said first device in said first communications mode;

radiofrequency transceiving means for transceiving said radiofrequency signals with said first device in said second communications mode; and

switching means for switching between said infrared and radiofrequency transceiving means.

11. (Original) The communication system according to claim 10, wherein said infrared transceiving means within said second device comprises:

a photodetector for receiving said infrared signals from said first device; and
an infrared emitter for transmitting said infrared signals to said first device.

12. (Original) The communication system according to claim 1, wherein said communication system is a cordless system.

13. (Original) The communication system according to claim 1, wherein said first and second devices are each selected from the group consisting of:

mobile telephones, home base stations, SIM cards, headsets, computers, printers, plotters, projectors, facsimile devices, pagers, data organizers, computer terminals, scanners, microphones, PC cards, televisions, radios, stereos, VCRs, light devices, dimmers, thermostats, doors, refrigerators, freezers, ovens, washers, dryers, answering machines, home alarms, car alarms, and other peripheral and portable devices.

14. (Original) The communication system according to claim 1, wherein said first and second devices communicate on a radiofrequency band ranging from about 2.4 GHz to about 2.483 GHz.

15. (Original) The communication system according to claim 14, wherein said band is at about 2.45 GHz.

16-26. (Canceled)

27. (Currently Amended) A transceiving device for secure wireless communications in a communications system, said device comprising:

radiofrequency transceiving means for transceiving a plurality of radiofrequency transmissions within said communications system; and

infrared transceiving means for transceiving a plurality of infrared transmissions within said communications system;

wherein said transceiving device switches transceiving from said radiofrequency transceiving means to said infrared transceiving means prior to the transmission of an infrared security message within said communications system; and-

wherein, upon said transceiving device switching transceiving to said infrared transceiving means, said transceiving device transmits an infrared request message to a second transceiving device.

28. (Original) The transceiving device according to claim 27, wherein said infrared transceiving means comprises:

a photodetector for receiving said infrared transmissions; and

an infrared emitter for transmitting said infrared transmissions.

29. (Original) The transceiving device according to claim 28, wherein said infrared emitter comprises a light-emitting diode.

30. (Canceled)

31. (Previously Presented) The transceiving device according to claim 27, wherein, after the transmission of said infrared security message, said transceiving device switches transceiving to said radiofrequency transceiving means.

32. (Previously Presented) The transceiving device according to claim 27, wherein said infrared security transmission comprises a plurality of encryption keys for the subsequent encryption of a plurality of said radiofrequency transmissions between said transceiving device and said communications system.

33. (Currently Amended) The transceiving device according to claim 27, wherein said ~~first and second~~ transceiving devices are each selected from the group consisting of:

mobile telephones, home base stations, SIM cards, headsets, computers, printers, plotters, projectors, facsimile devices, pagers, data organizers, computer terminals, scanners, microphones, PC cards, televisions, radios, stereos, VCRs, light devices, dimmers, thermostats, doors, refrigerators, freezers, ovens, washers, dryers, answering machines, home alarms, car alarms, and other peripheral and portable devices.

34. (Previously Presented) The transceiving device according to claim 27, wherein said first and second devices communicate on a radiofrequency band ranging from about 2.4 GHz to about 2.483 GHz.

35. (Original) The transceiving device according to claim 34, wherein said band is at about 2.45 GHz.